

Title (en)

MODIFIED KLENOW FRAGMENT AND APPLICATION THEREOF

Title (de)

MODIFIZIERTES KLENOW-FRAGMENT UND DESSEN VERWENDUNG

Title (fr)

FRAGMENT DE KLENOW MODIFIÉ ET SON APPLICATION

Publication

**EP 4060033 A1 20220921 (EN)**

Application

**EP 20888003 A 20200910**

Priority

- CN 201911103369 A 20191113
- CN 201911120490 A 20191115
- CN 2020114356 W 20200910

Abstract (en)

Provided are a modified Klenow fragment and an application thereof; specifically provided is a modified Klenow fragment, wherein at least one position or functionally equivalent position among F762, A842, 1709 and P603 in the amino acid sequence of the modified Klenow fragment contains at least one amino acid substitution mutation. The modified Klenow fragment has higher DNA polymerase activity than a wild-type Klenow fragment and can be applied to sequencing.

IPC 8 full level

**C12N 9/12** (2006.01); **C12N 1/21** (2006.01); **C12N 15/31** (2006.01); **C12N 15/54** (2006.01); **C12N 15/64** (2006.01); **C12Q 1/686** (2018.01); **C12Q 1/6869** (2018.01)

CPC (source: CN EP US)

**C12N 9/1252** (2013.01 - CN EP US); **C12N 15/70** (2013.01 - CN EP); **C12P 19/34** (2013.01 - CN EP); **C12Q 1/6869** (2013.01 - US); **C12Y 207/07007** (2013.01 - CN EP US); **C07K 2319/21** (2013.01 - EP); **Y02A 50/30** (2017.12 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 4060033 A1 20220921**; **EP 4060033 A4 20230426**; CN 111534500 A 20200814; CN 116218814 A 20230606; US 2022411767 A1 20221229; WO 2021093434 A1 20210520

DOCDB simple family (application)

**EP 20888003 A 20200910**; CN 201911120490 A 20191115; CN 2020114356 W 20200910; CN 202310122269 A 20191115; US 202017776490 A 20200910